

Post-Doctoral Fellowship and PhD Studentship in Computer Vision, Machine Learning and Photogrammetry

Dr. Gunho Sohn's Laboratory
Dept. Earth and Space Science and Engineering
Lassonde School of Engineering
York University, Toronto, ON M3J 1P3, Canada

A Postdoctoral Fellowship and PhD Studentships are available in the Department of Earth and Space Science and Engineering at York University. The candidates will be involved in research projects supported by the [NSERC CREATE Data Analytics & Visualization \(DAV\)](#), the [Intelligent Systems for Sustainable Urban Mobility \(ISSUM\)](#), [Thales Canada](#), [Teledyne-Optech](#) and [PCI Geomatics](#) in the fields of object recognition, 3D mapping and autonomous vehicle navigation under the supervision of Prof. Gunho Sohn.

Postdoctoral Fellowship: Applicants for Postdoctoral Fellowship will have demonstrated expertise in computer vision, machine learning or photogrammetry, with particular experience and educational background in one or more of the following areas:

- Deep Learning;
- Visual Odometry;
- 3D Computer Vision;

The position is for two years. The salary for this position is competitive and the starting date is flexible.

PhD Studentships: Applicants for the PhD are required to have finished, or be close to finishing, their Master's degree or equivalent, in geomatics engineering, electrical engineering, or computer science. The PhD students appointed to this position will be expected to start his/her doctoral research program from May 1st, 2019 or September 1st, 2019.

Candidates with the following qualifications are encouraged to apply:

- Strong academic background (GPA of B or better);
- Strong research interest and a background in either computer vision, machine learning or photogrammetry;
- Solid programming skills (including C++ and Python);
- Proven record of strong scientific writing skills and high motivation to produce publishable results;
- English fluent in spoken and written (e.g., Above IELTS 7 bands);

The Post-doctoral fellow and PhD students appointed to these positions will be expected to be involved in research projects on either 3D scene segmentation, object detection/tracking for autonomous navigation, indoor mapping, or augmented three-dimensional reconstruction of city models, using mobile imaging sensors (ground-based or unmanned aerial vehicle). More information about Dr. Sohn's research is available at www.yorku.ca/gsohn. Applicants should send his/her curriculum vitae to gsohn@yorku.ca.